

## **TIAMA**

*(SOCIETE ANONYME A CONSEIL DE SURVEILLANCE ET DIRECTOIRE)*

*(Public limited company with Supervisory Board and Board of Management)*

### **METHOD AND DEVICE FOR DETECTING SURFACE DEFECTS ON THE OUTER WALL OF A TRANSPARENT OR TRANSLUCENT OBJECT**

#### **ABSTRACT:**

The device for detecting surface defects on the outer wall (2) of a transparent or translucent object (3), comprises:

- a uniform, extensive, broad light source (4), adapted to send an incidents light beam (5) onto a surface of the outer wall (2) of the object,
- a linear sensor (8) for measuring light beams, arranged to collect the light beam (9) reflected by a linear zone of the outer wall (2), illuminated by the light source (4),
- means (12) ensuring relative movement between firstly the object and secondly the light source (4) and the linear measuring sensor (8), so as to move the linear measuring zone over the outer wall (2) of the object in order to cover the surface to be inspected,
- and a unit (15) for a analysing and processing the light beams, received by the measuring sensor (8), adapted to create an image and to identify within the image the presence of a surface defect corresponding to a dark area.

(Figure to be published: **fig. 1**)